

WEST Search History

DATE: Tuesday, November 25, 2003

Set Name **Query**
side by side

Hit Count **Set Name**
result set

DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

L7	DPPC same (platelet adj1 activating adj1 factor)	0	L7
L6	DPPC same (platelet adj1 activating)	0	L6
L5	DPPC same PAF	16	L5
L4	DPPC adj10 ceramide\$	2	L4
L3	DPPC adj5 ceramide\$	1	L3
L2	L1 and ((424/450)!.CCLS.)	20	L2
L1	DPPC same ceramide\$	44	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 20 of 20 returned.**☐ 1. Document ID: US 6586410 B1

L2: Entry 1 of 20

File: USPT

Jul 1, 2003

US-PAT-NO: 6586410

DOCUMENT-IDENTIFIER: US 6586410 B1

TITLE: Lipid-nucleic acid particles prepared via a hydrophobic lipid-nucleic acid complex intermediate and use for gene transfer

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wheeler; Jeffery J.	Richmond			CA
Bally; Marcel B.	Bowen Island			CA
Zhang; Yuan-Peng	Vancouver			CA
Reimer; Dorothy L.	Vancouver			CA
Hope; Michael	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Scherrer; Peter	Vancouver			CA

US-CL-CURRENT: 514/44; 424/450, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw Desc	Image										

☐ 2. Document ID: US 6548047 B1

L2: Entry 2 of 20

File: USPT

Apr 15, 2003

US-PAT-NO: 6548047

DOCUMENT-IDENTIFIER: US 6548047 B1

TITLE: Thermal preactivation of gaseous precursor filled compositions

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.51; 424/450, 424/9.4, 424/9.5, 424/9.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw Desc	Image										

☐ 3. Document ID: US 6537246 B1

L2: Entry 3 of 20

File: USPT

Mar 25, 2003

US-PAT-NO: 6537246

DOCUMENT-IDENTIFIER: US 6537246 B1

TITLE: Oxygen delivery agents and uses for the same

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		
McCreery; Thomas	Tucson	AZ		
Wu; Yunqiu	Tucson	AZ		

US-CL-CURRENT: 604/82; 222/145.5, 222/145.6, 222/146.2, 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 4. Document ID: US 6521211 B1

L2: Entry 4 of 20

File: USPT

Feb 18, 2003

US-PAT-NO: 6521211

DOCUMENT-IDENTIFIER: US 6521211 B1

TITLE: Methods of imaging and treatment with targeted compositions

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		
Wu; Yunqiu	Tucson	AZ		

US-CL-CURRENT: 424/9.52; 424/450, 424/9.5, 424/9.51, 514/18, 514/2, 600/431, 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 5. Document ID: US 6416740 B1

L2: Entry 5 of 20

File: USPT

Jul 9, 2002

US-PAT-NO: 6416740

DOCUMENT-IDENTIFIER: US 6416740 B1

TITLE: Acoustically active drug delivery systems

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.52; 424/450, 424/9.5, 424/9.51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 6. Document ID: US 6403056 B1

L2: Entry 6 of 20

File: USPT

Jun 11, 2002

US-PAT-NO: 6403056

DOCUMENT-IDENTIFIER: US 6403056 B1

**** See image for Certificate of Correction ****

TITLE: Method for delivering bioactive agents using cochleates

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.51; 424/400, 424/450, 424/502, 424/9.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 7. Document ID: US 6315981 B1

L2: Entry 7 of 20

File: USPT

Nov 13, 2001

US-PAT-NO: 6315981

DOCUMENT-IDENTIFIER: US 6315981 B1

TITLE: Gas filled microspheres as magnetic resonance imaging contrast agents

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.323; 424/450, 424/9.3, 424/9.32, 424/9.321, 424/9.322, 424/9.33, 424/9.36, 424/9.37, 424/9.51, 424/9.52, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 8. Document ID: US 6200598 B1

L2: Entry 8 of 20

File: USPT

Mar 13, 2001

US-PAT-NO: 6200598

DOCUMENT-IDENTIFIER: US 6200598 B1

**** See image for Certificate of Correction ****

TITLE: Temperature-sensitive liposomal formulation

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Needham; David	Durham	NC		

US-CL-CURRENT: 424/450; 424/1.21, 424/9.321, 424/9.51, 424/94.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 9. Document ID: US 6143276 A

L2: Entry 9 of 20

File: USPT

Nov 7, 2000

US-PAT-NO: 6143276

DOCUMENT-IDENTIFIER: US 6143276 A

TITLE: Methods for delivering bioactive agents to regions of elevated temperatures

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.3; 424/450, 424/455, 424/489, 424/491, 424/497, 424/499,
424/502, 424/9.4, 424/9.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 10. Document ID: US 6139819 A

L2: Entry 10 of 20

File: USPT

Oct 31, 2000

US-PAT-NO: 6139819

DOCUMENT-IDENTIFIER: US 6139819 A

TITLE: Targeted contrast agents for diagnostic and therapeutic use

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		
Fritz; Thomas A.	Tucson	AZ		
Gertz; Edward W.	Paradise Valley	AZ		

US-CL-CURRENT: [424/9.52](#); [424/450](#), [424/9.51](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC
Draw Desc	Image									

☐ 11. Document ID: US 6123923 A

L2: Entry 11 of 20

File: USPT

Sep 26, 2000

US-PAT-NO: 6123923

DOCUMENT-IDENTIFIER: US 6123923 A

TITLE: Optoacoustic contrast agents and methods for their use

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		
Wu; Yunqiu	Tucson	AZ		

US-CL-CURRENT: [424/9.52](#); [424/450](#), [424/9.1](#), [424/9.2](#), [424/9.3](#), [424/9.6](#), [514/410](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC
Draw Desc	Image									

☐ 12. Document ID: US 6120751 A

L2: Entry 12 of 20

File: USPT

Sep 19, 2000

US-PAT-NO: 6120751

DOCUMENT-IDENTIFIER: US 6120751 A

TITLE: Charged lipids and uses for the same

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: [424/9.51](#); [264/4](#), [264/4.1](#), [424/450](#), [424/502](#), [424/9.52](#), [428/402.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC
Draw Desc	Image									

☐ 13. Document ID: US 6117414 A

L2: Entry 13 of 20

File: USPT

Sep 12, 2000

US-PAT-NO: 6117414

DOCUMENT-IDENTIFIER: US 6117414 A

TITLE: Method of computed tomography using fluorinated gas-filled lipid microspheres as contract agents

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.4; 424/450, 424/451, 424/489, 424/9.411, 424/9.51, 424/9.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 14. Document ID: US 6045828 A

L2: Entry 14 of 20

File: USPT

Apr 4, 2000

US-PAT-NO: 6045828

DOCUMENT-IDENTIFIER: US 6045828 A

TITLE: Powders for inhalation

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bystrom; Katarina	Genarp			SE
Nilsson; Per-Gunnar	Malmo			SE

US-CL-CURRENT: 424/489; 424/404, 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 15. Document ID: US 6033645 A

L2: Entry 15 of 20

File: USPT

Mar 7, 2000

US-PAT-NO: 6033645

DOCUMENT-IDENTIFIER: US 6033645 A

**** See image for Certificate of Correction ****

TITLE: Methods for diagnostic imaging by regulating the administration rate of a contrast agent

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ	85749	
Matsunaga; Terry	Tucson	AZ	85710	
Fritz; Thomas A.	Tucson	AZ	85711	
Ramaswami; Varadarajan	Tucson	AZ	85715	

US-CL-CURRENT: 424/9.5; 424/450, 424/9.51, 424/9.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 16. Document ID: US 5976567 A

L2: Entry 16 of 20

File: USPT

Nov 2, 1999

US-PAT-NO: 5976567

DOCUMENT-IDENTIFIER: US 5976567 A

TITLE: Lipid-nucleic acid particles prepared via a hydrophobic lipid-nucleic acid complex intermediate and use for gene transfer

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wheeler; Jeffery J.	Richmond			CA
Bally; Marcel B.	Bowen Island			CA
Zhang; Yuan-Peng	Vancouver			CA
Reimer; Dorothy L.	Vancouver			CA
Hope; Michael	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Scherrer; Peter	Vancouver			CA

US-CL-CURRENT: 424/450; 435/458, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 17. Document ID: US 5874062 A

L2: Entry 17 of 20

File: USPT

Feb 23, 1999

US-PAT-NO: 5874062

DOCUMENT-IDENTIFIER: US 5874062 A

**** See image for Certificate of Correction ****

TITLE: Methods of computed tomography using perfluorocarbon gaseous filled microspheres as contrast agents

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		

US-CL-CURRENT: 424/9.4; 424/450, 424/489, 424/9.51, 424/9.52, 600/431

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KIMC
Draw Desc	Image									

☐ 18. Document ID: US 5785987 A

L2: Entry 18 of 20

File: USPT

Jul 28, 1998

US-PAT-NO: 5785987

DOCUMENT-IDENTIFIER: US 5785987 A

TITLE: Method for loading lipid vesicles

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hope; Michael	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Fenske; David B.	Surrey			CA
Wong; Kim F.	Vancouver			CA

US-CL-CURRENT: 424/450; 264/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KIMC
Draw Desc	Image									

☐ 19. Document ID: US 5733572 A

L2: Entry 19 of 20

File: USPT

Mar 31, 1998

US-PAT-NO: 5733572

DOCUMENT-IDENTIFIER: US 5733572 A

**** See image for Certificate of Correction ****

TITLE: Gas and gaseous precursor filled microspheres as topical and subcutaneous delivery vehicles

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unger; Evan C.	Tucson	AZ		
Matsunaga; Terry O.	Tucson	AZ		
Yellowhair; David	Tucson	AZ		

US-CL-CURRENT: 424/450; 424/1.21, 424/489, 424/9.321, 424/9.4, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RMC

☐ 20. Document ID: US 4920016 A

L2: Entry 20 of 20

File: USPT

Apr 24, 1990

US-PAT-NO: 4920016

DOCUMENT-IDENTIFIER: US 4920016 A

**** See image for Certificate of Correction ****

TITLE: Liposomes with enhanced circulation time

DATE-ISSUED: April 24, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Theresa M.	Edmonton			CA
Gabizon; Alberto	San Francisco	CA		

US-CL-CURRENT: 424/1.21; 264/4.3, 264/4.6, 424/450, 424/94.3, 428/402.2, 436/829,
514/885

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC

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L1 and ((424/450)!.CCLS.)	20

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File: USPT

Apr 24, 1990

US-PAT-NO: 4920016

DOCUMENT-IDENTIFIER: US 4920016 A

**** See image for Certificate of Correction ****

TITLE: Liposomes with enhanced circulation time

DATE-ISSUED: April 24, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Theresa M.	Edmonton			CA
Gabizon; Alberto	San Francisco	CA		

US-CL-CURRENT: 424/1.21; 264/4.3, 264/4.6, 424/450, 424/94.3, 428/402.2, 436/829,
514/885

CLAIMS:

It is claimed:

1. A composition comprising liposomes which contain an entrapped pharmaceutical agent and are characterized by:

(a) liposome sizes predominantly between about 0.05 and 0.5 microns,

(b) liposomes having substantially homogeneous-phase bilayers composed at at least about 50 mole percent of a membrane-rigidifying lipid selected from the group consisting of sphingomyelin and neutral phospholipids with predominantly saturated acyl chains, and

(c) between about 5-20 mole percent saturated phosphatidylinositol.

2. The composition of claim 1, wherein the liposomes are predominantly in the 0.07 to 0.12 micron size range.

3. The composition of claim 1, wherein the membrane-rigidifying lipid is brain sphingomyelin liposomes contain sphingomyelin and the liposomes contain sphingomyelin and phosphatidylcholine, at a mole ratio between 2:1 and 4:1.

4. The composition of claim 1, wherein the membrane-rigidifying lipid is predominantly phosphatidylcholine with saturated acyl chains.

5. In a therapeutic drug treatment in which a drug is administered intravenously in a suspension of liposomes in which the drug is entrapped and whose sizes are predominantly between about 0.05-0.5 microns, a method of extending the lifetime of liposomes in the bloodstream which comprises preparing the liposomes to contain:

(a) substantially homogeneous-phase bilayers containing at least about 50 mole percent of a membrane-rigidifying lipid selected from the group consisting of sphingomyelin and neutral phospholipids with predominantly saturated acyl

chains, and

" (b) between about 5-20 mole percent saturated phosphatidylinositol.

6. The method of claim 5, wherein the liposomes contain sphingomyelin and phosphatidylcholine, at a mole ratio between 2:1 and 4:1.

7. The method of claim 5, wherein the membrane-rigidifying lipid is predominantly phosphatidylcholine with saturated acyl chains.

8. The method of claim 5, for use in tumor therapeutic drug treatment, wherein the amount of drug which is delivered to the tumor, as measured by the amount drug/tumor weight 24 hours after drug administration, is severalfold greater than that achievable by administering the drug in free form.

9. The method of claim 8, wherein drug which is entrapped in the liposomes is bleomycin.

10. The method of claim 8, wherein the drug which is entrapped in the liposomes is doxorubicin.

11. The method of claim 8, which further includes targeting the liposomes to the tumor by addition of tumor-specific binding molecules to the liposome surfaces.

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: US 4416872 A

L3: Entry 1 of 1

File: USPT

Nov 22, 1983

US-PAT-NO: 4416872

DOCUMENT-IDENTIFIER: US 4416872 A

TITLE: Treatment of malaria with liposomes containing 8-aminoquinoline derivatives and glycoconjugates

DATE-ISSUED: November 22, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alving; Carl R.	Washington	DC		
Steck; Edgar A.	Silver Spring	MD		

US-CL-CURRENT: [514/8](#); [514/25](#), [514/26](#), [514/895](#), [530/395](#)

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1
CAW.1							

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Terms	Documents
DPPC adj5 ceramide\$	1

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